

Product datasheet for RC204750

ADH4 (NM_000670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADH4 (NM_000670) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADH4
Synonyms:	ADH-2; HEL-S-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204750 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACCAAGGGCAAAGTTATTAATGCAAAGCAGCCATCGCCTGGGAAGCAGGCAAGCCCCTTTGCA
TTGAAGAGGTTGAAGTAGCTCCCCCAAGGCTCATGAAGTTCGCATTGATCATTGCTACCTCCCTGTG
CCATACTGATGCCACTGTTATCGATTCTAAATTTGAGGGCCTAGCTTTCCAGTGATCGTTGGCCATGAG
GCTGCAGGTATTGTGAAAGTATTGGGCCAGGAGTGACCAACGTCAAACCAGGTGACAAAGTAATCCAC
TTTATGCACCTCTATGTAGAAAATGCAAGTTTTGTCTGAGTCCACTCACAAATTTGTGTGGAAAATCAG
TAATCTCAAAGTCTGCTAGTGATCAACAACATGGAAGACAAAACCAGCAGGTTTACCTGCAAAGGA
AAACCAGTTTACCATTTCTTTGGAACCAGTACATTCTCTCAGTACACTGTGGTGTGAGATATCAATCTTG
CCAAAATAGATGATGATGCAAAATTTAGAGAGAGTTTGTCTGCTTGGATGTGGGTTTTCAACTGGCTATGG
GGCTGCAATCAACAATGCCAAGGTCACCCCTGGTTCGACTTGTGCTGCTTTGGCCTAGGAGGTGTGGGT
CTTTCTGCTGTAATGGGTTGTAAGCAGCAGGAGCTTCCAGAATCATAGGTATTGACATCAACAGTGAGA
AGTTTGTGAAGGCTAAAGCCCTGGGAGCCACTGACTGCCTCAATCCTAGAGACTTACATAAACCTATCCA
GGAAGTTATCATTGAATTGACCAAGGGAGGTGTGGATTTTGCCTTGACTGTGCAGGTGGATCTGAAACC
ATGAAAGCAGCCCTGGACTGTACAACCGCAGGCTGGGGATCATGTACTTTTATTGGAGTAGCTGCTGGTA
GCAAAGGATTGACTGTTTTTCCAGAGGAGCTAATAATCGCCGTAATAAATGGAACATTCTTTGGTGG
TTGGAAAAGTGTAGATTCTATCCAAAGCTGGTCACTGACTATAAGAATAAGAAATTCATCTGGATGCA
CTGGTGACCCATACCCTGCCTTTTGACAAAATCAGTGAGGCATTTGACCTAATGAACCAAGGAAAAAGCA
TCCGAACAATCCTCATCTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_000670.5](#)

RefSeq Size: 1980 bp

RefSeq ORF: 1143 bp

Locus ID: 127

UniProt ID: [P08319](#)

Cytogenetics: 4q23

Domains: ADH_zinc_N

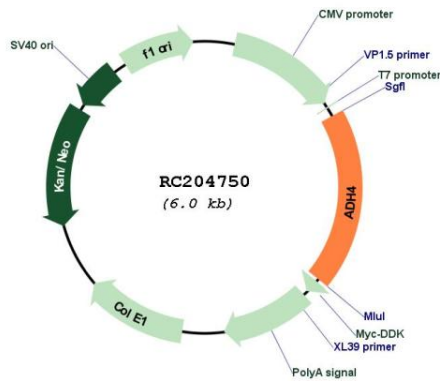
Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism

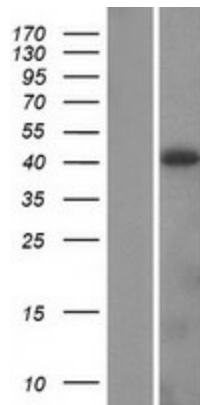
MW: 40.2 kDa

Gene Summary: This gene encodes class II alcohol dehydrogenase 4 pi subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class II alcohol dehydrogenase is a homodimer composed of 2 pi subunits. It exhibits a high activity for oxidation of long-chain aliphatic alcohols and aromatic alcohols and is less sensitive to pyrazole. This gene is localized to chromosome 4 in the cluster of alcohol dehydrogenase genes. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC204750



Western blot validation of overexpression lysate (Cat# [LY400219]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204750 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).